Listing of Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Claims 1-32 (cancelled).

Claim 33 (currently amended): The A screening method according to claim 32 for the identification of agents which modulate initiation of DNA replication wherein said method comprises detecting or measuring the effect of an agent on a nucleic acid molecule selected from the group consisting of:

a) a nucleic acid molecule comprising a nucleic acid sequence represented in any of SEQ ID NO: 45, 46, 66, 67, 68, 69, 70, 71, 72 or 73;

b) a nucleic acid molecule which hybridises to the nucleic acid sequence in (a) and which has Ciz1 activity or activity of a variant thereof;

c) a nucleic acid molecule which has a nucleic acid sequence which is degenerate because of the genetic code to a sequence in a) or b);

d) a nucleic acid molecule which has a nucleic acid sequence that is at least 95% identical to the nucleic acid sequence in (a) and which has Ciz1 activity; and

e) a nucleic acid-molecule derived from the genomic sequence at the Ciz1 locus or a nucleic acid molecule that hybridises to the genomic-sequence.

Claim 34 (cancelled).

Claim 35 (currently amended): The screening method according to claim 32 33, wherein said method comprises one or more of the following steps:

(i) forming a preparation comprising a candidate agent to be tested and a polypeptide molecule, or an active fragment thereof, encoded by a nucleic acid molecule selected from the group consisting of:

a) a nucleic acid molecule comprising a nucleic acid sequence represented in any of SEQ ID NO: 45, 46, 66, 67, 68, 69, 70, 71, 72 or 73; and

b) a nucleic acid molecule which hybridizes to the nucleic acid sequence in (a) and which has Ciz1 activity or activity of a variant thereof;

e) b) a nucleic acid molecule which has a nucleic acid sequence which is degenerate because of the genetic code to the sequences in a) and encodes a polypeptide with

DNA initiation activity;

d) a nucleic acid molecule which has a nucleic acid sequence that is at least 95% identical

to the nucleic acid sequence in (a) and which has Ciz1 activity; and

e)-a-nucleic acid molecule derived from the genomic sequence-at the Ciz1-locus or-a

nucleic acid molecule that hybridises to the genomic sequence; and

(ii) detecting or measuring the effect of the agent on the activity of said polypeptide.

Claim 36 (cancelled).

Claim 37 (currently amended): The method according to claim 32 33 wherein said screening

method is a cell-based screening method.

Claim 38 (previously presented): The method according to claim 37 wherein the cell naturally

expresses the Ciz1 polypeptide.

Claim 39 (currently amended): The method according to claim 37 wherein the cell is transfected

with a nucleic acid molecule encoding Ciz 1 or a fragment or splice variant thereof.

Claims 40-50 (cancelled).

Claim 51 (currently amended): A diagnostic method for the identification of proliferative

disorders a cancer comprising detecting the presence or expression of the Ciz 1 gene, Ciz 1 splice

variants and mutations in the genomic or protein sequence thereof.

Claim 52 (currently amended): A The diagnostic method according to claim 51 wherein said

method comprises one or more of the following steps:

(i) contacting a sample isolated from a subject to be tested with an agent which

specifically binds a polypeptide-with Ciz 1 activity or a nucleic acid molecule

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comprising a nucleic acid sequence as represented by SEQ ID NO: 45, 46, 66, 67, 68, 69, 70, 71, 72 or 73 and encoding a polypeptide with Ciz 1 DNA initiation activity;

(ii) detecting or measuring the binding of the agent on said polypeptide or nucleic acid in

said sample;

(iii) measuring expression levels of Ciz1 and Ciz1 isform using reverse-transcribed PCR

or real-time PCR;

(iv) measuring the presence of nucleic acid or amino-acid mutations based on altered

conformational properties of the molecule; and

(v) sequence determination.

Claims 53-64 (cancelled)

Claim 65 (currently amended): A kit comprising Ciz 1 nucleotide or polypeptide sequence, or

any fragment or variant thereof primers selected from the group consisting of SEQ ID NO: 17-25

which binds bind to Ciz 1 alternate splice variants.

Claim 66 (new): The method according to claim 35 wherein said screening method is a cell-

based screening method.

Claim 67 (new): The method according to claim 66 wherein the cell naturally expresses the Ciz1

polypeptide.

Claim 68 (currently amended): The method according to claim 66 wherein the cell is transfected

with a nucleic acid molecule encoding Ciz 1 or a fragment or splice variant thereof.

Claim 69 (new): The method according to claim 52 wherein the cancer is a pediatric cancer

selected from the group consisting of: retinoblastoma, neuroblastoma, Burkett lymphoma,

medulloblastoma, and Ewings Sarcoma family tumors.

Claim 70 (new): The method according to claim 52 wherein the cancer is carcinoma,

adenocarcinoma, lymphoma or leukemia.

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Claim 71 (new): The method according to claim 52 wherein the cancer is liver, lung or skin cancer.